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Organisation 1: Name of contributor(s)

Organisation 2: Name of contributor(s)

…

Dissemination Level		
PU	Public	X
PP	Restricted to other programme participants (including the Commission Services)	
RE	Restricted to a group specified by the consortium (including the Commission Services)	
CO	Confidential, only for members of the consortium (including the Commission Services)	

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Abstract

In REAKT we aim at the best possible dissemination of research results to end users in different sectors. In addition, the results of the REAKT project will be disseminated to the research community.

Importantly, the results will also be streamlined with European civil protection activities as reflected in the working paper 'Towards better protecting citizens against disaster risks' (SEC (2007) 1721 of 14.12.2007) and the EU initiative on the prevention of natural and man-made disasters (DG ENV/ECHO, COM 2009 82).

REAKT as an earthquake risk reduction project relies on many previous, partially ongoing EU projects. In order to assure the communication within a wide scientific community, a knowledge base was established for REAKT. This knowledge base allows participants and all other interested parties to contribute and profit from REAKT. All content generated by REAKT is implemented into a Semantic Media Wiki (SMW) platform. A SMW “helps to search, organise, tag, browse, evaluate, and share [...] content. While traditional wikis contain only text which computers can neither understand nor evaluate, SMW adds semantic annotations that allow a wiki to function as a collaborative database” (SMW 2013).

The semantic knowledge base was originally established for the EU MATRIX project and now combines MATRIX and REAKT content, respectively. It enables both scientific communities to link their knowledge.

Keywords: *Semantic MediaWiki, knowledge base, ontology, taxonomy, earthquake early warning, REAKT*

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1 Introduction

Traditionally communication within and between EU projects relied on conventional and thus limited communication and knowledge management methods such as project webpage, portal in which Word/PDF documents were stored, email communication, etc.

In the EU project MATRIX (New Multi-Hazard and Multi-Risk Assessment Methods for Europe) we made an attempt to develop an improved knowledge management approach which relies on a Semantic MediaWiki (SMW). Within the MATRIX project, a SMW called SOBOLEO was chosen and it allows exploiting the established knowledge as reflected in documents and deliverables as they can be cross-referenced and simultaneously searched for notions and contexts. SOBOLEO also opens communication outside the project with other previous or partially ongoing EU projects, but also with the community to which we would like to reach out to exchange and gather scientific knowledge in an easy way.

We decided to use SOBOLEO for REAKT as well. In this deliverable, SOBOLEO is introduced and its main achievements so far are pointed out. In the Appendix one can find the SOBOLEO user manual, the training tasks and the taxonomy on “Early Warning”.

2 SOBOLEO

“SOBOLEO (Social Bookmarking and Lightweight Engineering of Ontologies) is a webbased system to help users share knowledge and experience more easily. Users collaboratively create a topic list and use this to tag people and web resources. This list is used as background knowledge during searches. SOBOLEO consists of 4 main parts:

- **Search:** A search engine that searches through tagged resources using the topic list as background knowledge (see Fig.1).
- **Browse:** An interface to browse through the topic list and the tagged resources (see Fig.2).
- **Tag:** An interface to add people and webpages to the index. You can use topics from the topic list and add new tags to tag web resources and people (see Fig.3).
- **Edit:** A collaborative real time editor for the topic list - this means that you can see the changes that other people make to the topic in real time. Please note that this is a topic list collaboratively edited by everyone” (see Fig.4) (FZI 2011a).

SOBOLEO “integrates the ontology development process with the application of ontologies (e.g. annotation, search and retrieval)” and “supports people working in a certain domain in the collaborative development of a shared index of relevant web resources (bookmarks) and of a shared ontology that is used to organize the bookmarks” (FZI 2011b).

SOBOLEO, in its final version, is installed and has been running since 30th April, 2012 (http://gpiswtool.gpi.kit.edu:8080/).

At present, SOBOLEO is open to the scientific communities of REAKT and MATRIX only. Interested users have to be registered by Sandra Laskowski of KIT to guarantee that only registered MATRIX and REAKT members can add, delete, change and read information. After a start-up phase it can be decided, when SOBOLEO is opened to the public or to a broader scientific community.

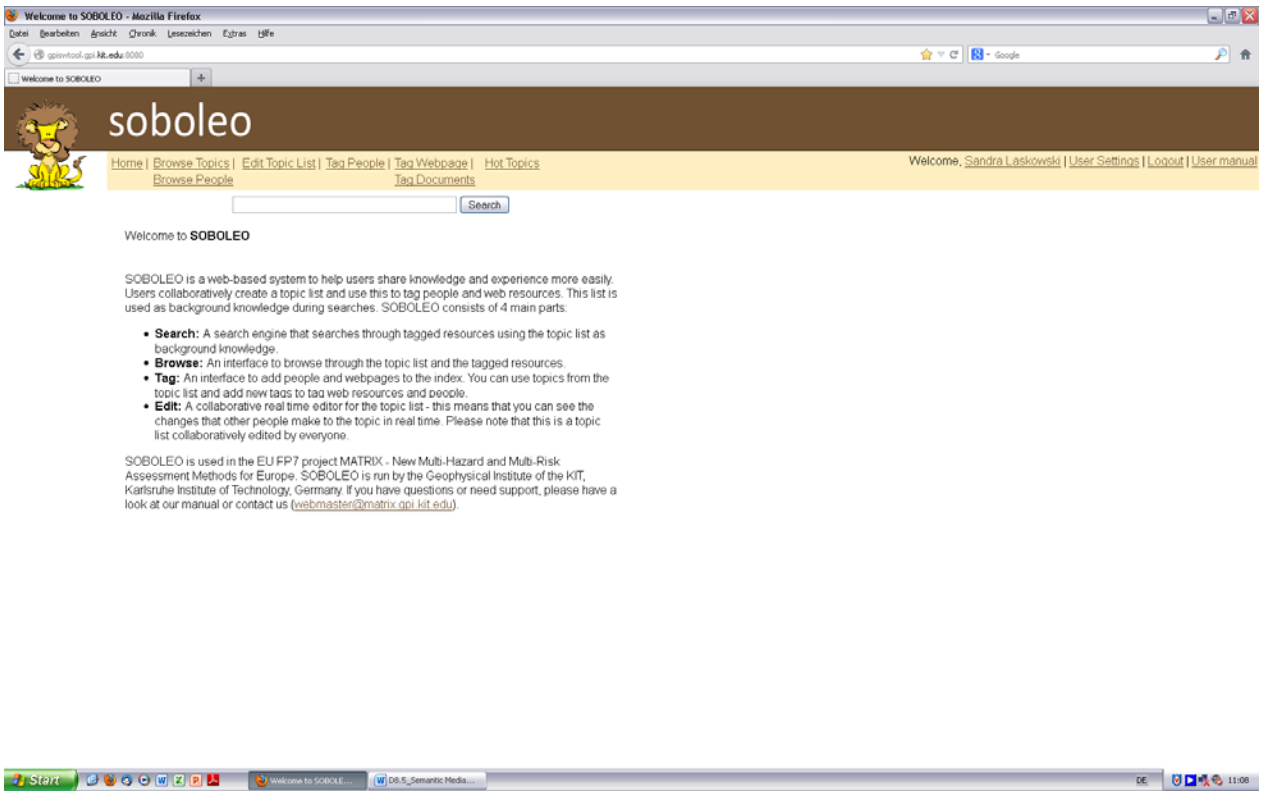
Welcome to SOBOLEO - Mozilla Firefox
soboleo
Home | Browse Topics | Edit Topic List | Tag People | Tag Webpage | Hot Topics
Browse People
Tag Documents
Welcome, Sandra Laskowski | User Settings | Logout | User manual
Search
Welcome to SOBOLEO
SOBOLEO is a web-based system to help users share knowledge and experience more easily. Users collaboratively create a topic list and use this to tag people and web resources. This list is used as background knowledge during searches. SOBOLEO consists of 4 main parts:
Search: A search engine that searches through tagged resources using the topic list as background knowledge.
Browse: An interface to browse through the topic list and the tagged resources.
Tag: An interface to add people and webpages to the index. You can use topics from the topic list and add new tags to tag web resources and people.
Edit: A collaborative real time editor for the topic list - this means that you can see the changes that other people make to the topic in real time. Please note that this is a topic list collaboratively edited by everyone.
SOBOLEO is used in the EU FP7 project MATRIX - New Multi-Hazard and Multi-Risk Assessment Methods for Europe. SOBOLEO is run by the Geophysical Institute of the KIT, Karlsruhe Institute of Technology, Germany. If you have questions or need support, please have a look at our manual or contact us (webmaster@matrix.gpi.kit.edu).

Fig.1 SOBOLEO Homepage (05.03.2013)

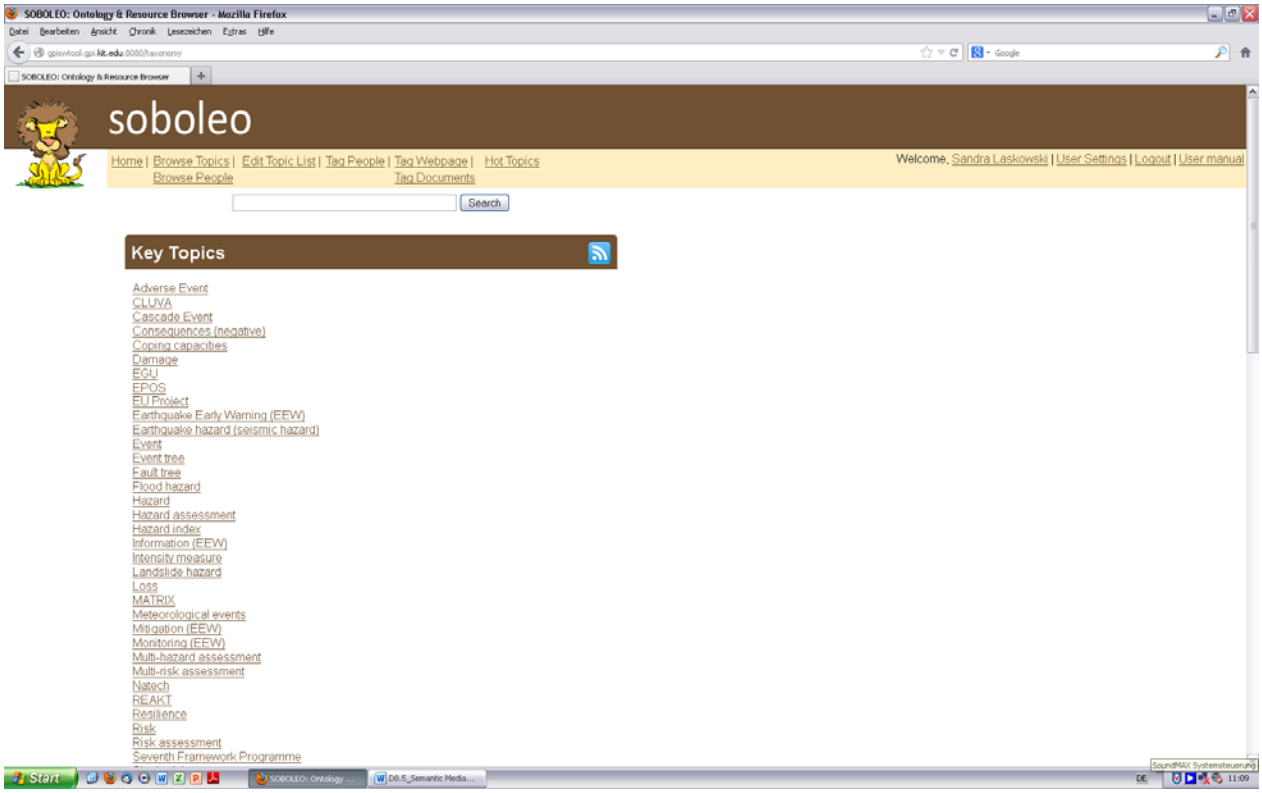

Fig.2 SOBOLEO Browse Documents (05.03.2013)

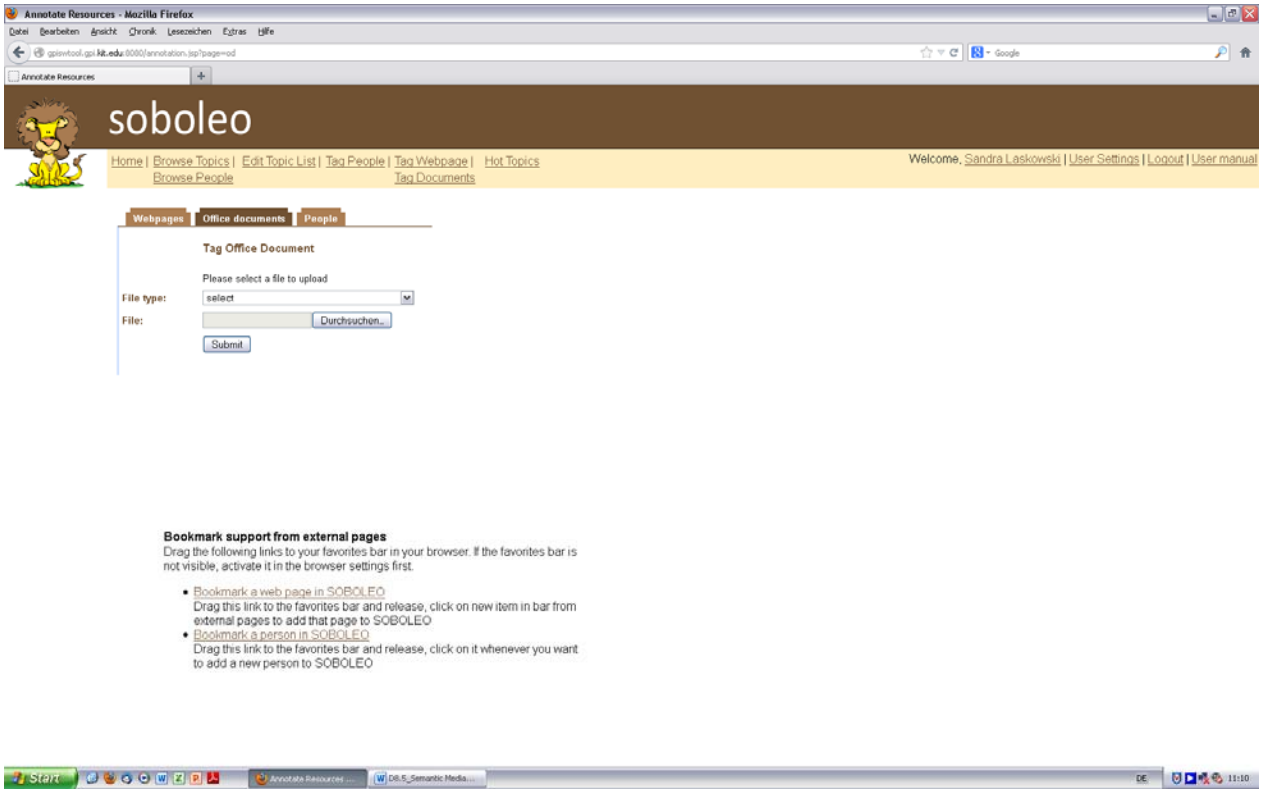
Annotate Resources - Mozilla Firefox
soboleo
Home | Browse Topics | Edit Topic List | Tag People | Tag Webpage | Hot Topics
Browse People
Tag Documents
Welcome, Sandra Laskowski | User Settings | Logout | User manual
Webpages
Office documents
People
Tag Office Document
Please select a file to upload
File type:
select
File:
Durchsuchen...
Submit
Bookmark support from external pages
Drag the following links to your favorites bar in your browser. If the favorites bar is not visible, activate it in the browser settings first.
Bookmark a web page in SOBOLEO
Drag this link to the favorites bar and release, click on new item in bar from external pages to add that page to SOBOLEO
Bookmark a person in SOBOLEO
Drag this link to the favorites bar and release, click on it whenever you want to add a new person to SOBOLEO

Fig.3 SOBOLEO Tag Documents (05.03.2013)

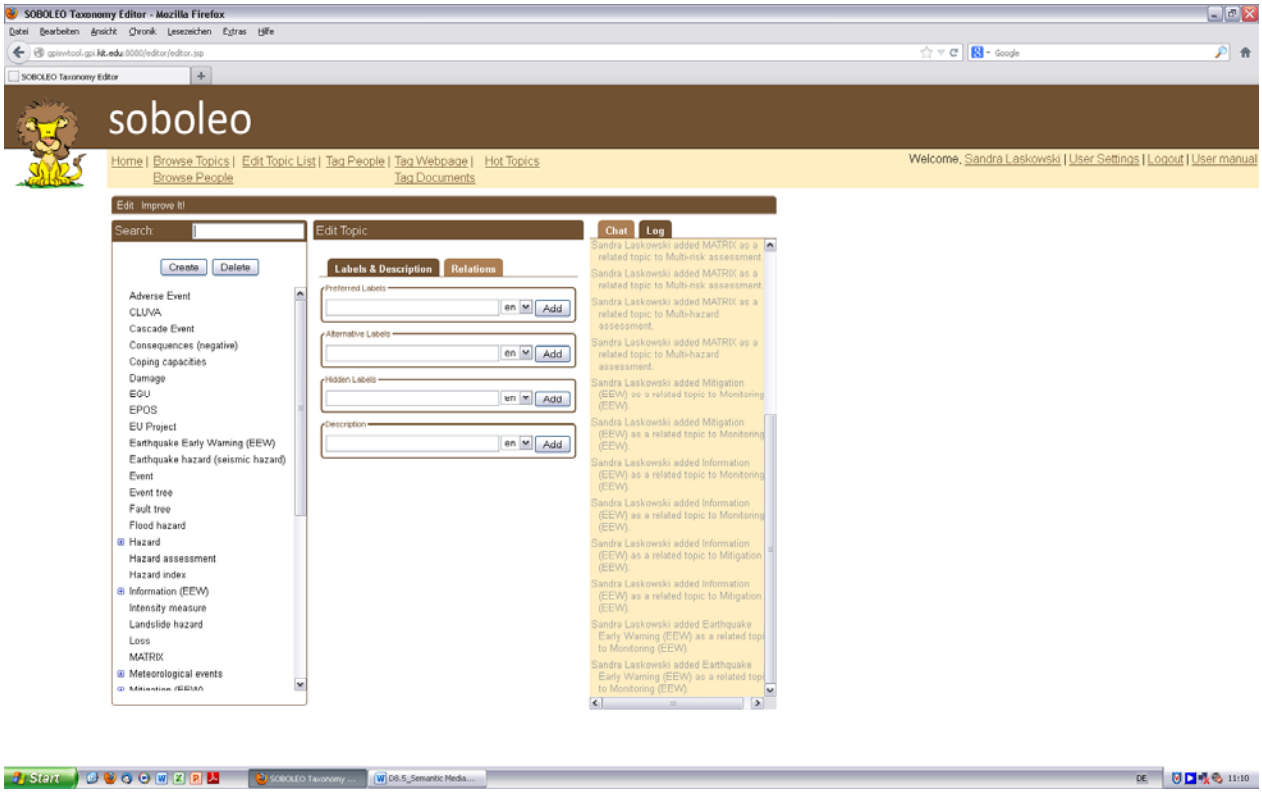

Fig.4 SOBOLEO Edit Topic List (05.03.2013)

3 SOBOLEO in MATRIX

During the MATRIX 1st Annual Meeting in Paris (10-12 October, 2011), SOBOLEO was introduced to the MATRIX consortium. The focus was on SOBOLEOS' functions (Search, Browse, Tag and Edit) and the advantages for MATRIX. There were also offered practical examples using the already existing dictionary of terminology by AMRA (D3.2 "Dictionary of terminology") as ontology.

Petra Knopf of KIT was responsible for the installation at the institute and set up a first version of SOBOLEO by end of 2011. This version was later modified on the basis of KIT's specifications. SOBOLEO, in its final version, is installed and has been running since 30th April, 2012 (http://gpiswtool.gpi.kit.edu:8080/). The starting page (see Fig.1) shows a welcome text describing briefly the main functions, a note about the MATRIX project, a support mail address, the menu bar including the login button, and a link which opens the user manual (for download).

In June 2012, a SOBOLEO test course with 15 MATRIX participants started. The participants received their log in data, a user manual (see Appendix), training tasks to familiarize themselves with SOBOLEO (see Appendix) and a feedback sheet.

Mid of July 2012, we faced unexpected software problems. These problems had to be solved together with the program developers and it took some time to analyse the bugs. Therefore, the participants were asked to stop their work at SOBOLEO until further notice.

To guarantee an errorless re-start of SOBOLEO a KIT-intern test was arranged in October 2012. Since then, SOBOLEO is running without problems.

4 SOBOLEO in REAKT

The idea to combine MATRIX and REAKT content in SOBOLEO first came up after the project start of REAKT as in both DoWs the development of a knowledge base is announced.

MATRIX and REAKT content (topics, documents, people, webpages, articles etc.) are stored in one tool and they can be cross-referenced and simultaneously searched for notions and contexts. Therefore, the main advantage for both projects is the combination of MATRIX and REAKT project content regarding “multi-hazard”, “multi-risk” and “earthquake early warning”. Friedemann Wenzel was responsible for the taxonomy about “Early Warning” which was integrated in the SOBOLEO topic list in February 2013 (see Appendix).

On the 1st of March, 2013 all REAKT members received the following e-mail announcing the set-up of the knowledge base SOBOLEO:

Dear REAKT colleagues,

*We are happy to announce that the **REAKT WP8 knowledge base is set up** (http://gpiswtool.gpi.kit.edu:8080/).*

*The knowledge base is the same one we are using for MATRIX and some of you might know it - **SOBOLEO** (**So**cial **Bo**okmarking and **L**ightweight **E**ngineering of **O**ntologies). **SOBOLEO** allows the REAKT consortium to manage project related knowledge, documents, people, links and other relevant information on **Earthquake Early Warning**.*

*We did not set up a completely new knowledge base, but integrated it into the MATRIX one. The advantage is that the MATRIX topic **multi-risk and multi-hazard** is now combined with the REAKT topic **earthquakes** and both project partners can interact.*

Everybody is highly welcome to have a look and participate!

If you are interested, please

(1) Send your name and email address to sandra.laskowski@kit.edu.
(2) I will provide you with login data.
(3) You will also receive the user manual and a set of training tasks, if you want to familiarize yourself with SOBOLEO.

If you have comments, problems or find errors, please write to (webmaster@matrix.gpi.kit.edu).

Best regards
Friedemann
Sandra

Please note that the SOBOLEO settings depend on the default-language of your browser. If you see/read a different language than English on the starting page, your browser probably uses another standard language, for example German. Please check the language setting of your browser (for example Tools > Settings > Language settings). As soon as you are logged in, English is the supported language or you can choose between English, Spanish, German, French or Italian.

Until today, eight people of the REAKT consortium requested a log in.

The MATRIX community received a similar e-mail announcing the combination of both knowledge bases.

We would like to point out that the participation is on a voluntary basis. In general, our experience shows that it is difficult to combine this kind of information tool and user acceptance. Therefore, it is planned to show SOBOLEO using examples in the next WP8 presentation at the 2nd Annual Meeting in Zurich.

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FZI (Eds.) 2011a. SOBOLEO. *http://octopus35.perimeter.fzi.de:8080/ (02.08.2011).*

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SMW (Eds.) 2013. Help: Introduction to Semantic MediaWiki. *http://semantic-mediawiki.org/wiki/Help:Introduction_to_Semantic_MediaWiki (18.03.2013).*

Appendix

Taxonomy on “Early Warning”
SOBOLEO user manual
SOBOLEO training tasks

Early Warning – Notions explained

A. Monitoring

Continuous observation of a natural system that is prone to develop disasters but allows the observation of precursors for those disasters. Monitoring can refer to instrumental records but also to observations by people. Here monitoring refers dominantly to seismological observation systems in various forms.

Onsite systems
Seismological instrumentation is placed in the vicinity of potential earthquake locations. The location to be protected may be in the vicinity or, more frequently, further away. The Mexican system with instrumentation along the Pacific Coast and protection targets in Mexico City, but also the Romanian system for Vrancea earthquakes and protection targets in Bucharest are examples.

- **Sensors**
  Seismometers or accelerometers, usually recording with 3 components that provide information of local ground motion, either as continuous time series or with retrieved information.

Network systems
Extensive seismological instrumentation covers fairly large areas where earthquake protection is to be achieved. Examples for this are California, Japan and Taiwan. If the network of seismological instruments has real-time capacity it can provide public early warnings as done by the Japanese Meteorological Agency (JMA) since 2007.

- **Recording hardware and software**
  The sensor signals are digitized and recorded at the site, or very close to, of the sensors. This requires appropriate hardware (ADC, disc storage capacity, power supply, processing facilities and appropriate software, e.g. SEISCOMP).

Self-organizing systems
Independent (low cost) recording systems with the potential of different sensors attached to them are displaced in an area. They rely on communication by wireless systems and pass information within the system. Individual nodes of the network may lose functionality without affecting the network itself. An example for this type of system is the SOSEWIN system of GFZ Potsdam.

- **Communication hardware and software**
  The seismic signals or extracted information must be communicated, either to centers where data information is collected or between neighboring sensors (self-organizing systems). This requires specific hardware and software.

B. Information

Facts, parameters, maps that are derived from the incoming signals of the monitoring system. Information must be derived (computed) from incoming data. Data are converted to parameters and maps that can be of further use for decisions regarding mitigation.

Size of earthquake
The size of earthquakes is defined in magnitudes, which can be derived from a network of seismologic information but approximately also from one or a few instrumental data.

- **Site specific ground motion**
  This can be computed in early warning systems at sites where it has not been measured, otherwise it is available from the instrumental observations.

Time of earthquake
Source time derived from network information or individual records. You should have given UTC.

- **Alert map, shake map**
  Shake map is a map that shows the ground motion of an earthquake in the affected area. It is either computed from source information alone or contains seismometric observations and extrapolations between recording stations. The parameters of shake maps are identically to those with which ground motion is described. Shake maps as part of early warning are provided in near-real time, very shortly after an earthquake, so that the areas on high and low ground motion can be immediately identified. A shake map can be established once all relevant seismic records are available and are be processed, whereas an alert map is generated during the earthquake and relies on parts of the records so that it is less reliable but faster available.

Ground motion
A general notion for the description of ground shaking during earthquakes. Ground motion parameters are derived from seismological records and are given as macro-seismic intensities, horizontal peak ground acceleration, horizontal peak ground velocity, horizontal peak ground displacement, spectral parameters of the records.

- **Aftershock information**
  Aftershocks usually accompany main shocks and cause significant distortion among population and response agencies; information about aftershock concerns the locations, their size and frequency usually given by probabilistic means.

Exposure and loss
Exposure refers to the objects at risk in an area which is targeted for earthquake early warning. This can comprise buildings, infrastructure facilities, cultural heritage, dams, railway tracks, etc. Loss occurs as a consequence of the impact of ground motion on the exposure.

- **Earthquake forecast**
  Contrary to earthquake prediction earthquake forecast builds on statistical earthquake models that are intensively tested and allow providing a probability of current earthquake occurrence, which changes specifically in case of foreshocks.

- **Loss information**
  It refers to damages in consequence of ground shaking and loss of value or functionality of building infrastructure, etc. It can be given in many parameters such as financial values, mean damage ratios, down times, but also regarding persons in terms of fatalities, injuries, and affected people, homeless.

C. Mitigation

Mitigation refers to the reduction of adverse impacts of earthquakes on people, buildings, infrastructures and other values such as cultural heritage but also on the psychology of people in an earthquake area.

Communication to users
Decision makers but also the public are the recipients of earthquake early warning information; the tailoring of the information has to be specific according to the user's needs.

- **Civil protection agencies**
  The agencies that are in most countries responsible for immediate response and relief actions on case of an impending disaster.

Preparedness of users
The tuning process between early warning information and user needs should make decision makers and the wider public receptive to earthquake early warning information.

- **Production facilities**
  Automatic measures of earthquake early warning are potentially applicable to production facilities in order to reduce losses. This is possible by avoiding fires, toxic spill or changing operational modes wherever facilities and machinery is susceptible to ground shaking.

Decision support systems for users
Earthquake early warning products can be used directly for decision making (e.g. alert- or shake maps or loss information) but more sophisticated support systems such as multi-criteria decision analysis systems or others are potentially useful.

- **Infrastructure operators**
  Infrastructure (energy supply distribution systems, oil and gas pipelines, fresh and used water systems, transportation systems, communication systems) are particular important to function after an earthquake. With earthquake early warning there is a potential to avoid downtimes of the infrastructure or reduce their loss of functionality to a minimum extent.

Response by users
Earthquakes create stress on decision makers and public, the actual response of users may not be always as designed or expected. User response is a critical issue in learning to improve the functionality of earthquake early warning systems.

- **Public**
  Only few early warning systems so far address the public. The Mexico City early warning system and the system operated by the Japanese Meteorological Agency are broadcasted to the public. There is a wide variety of potential public response to warning that ranges from to panic; the latter one could even increase losses.

SOBOLEO Manual

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1 Introduction

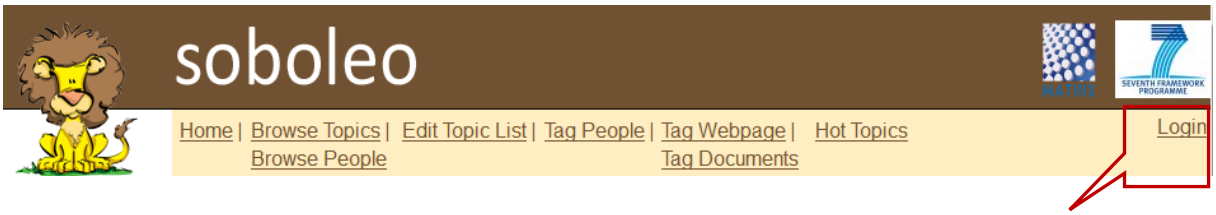
SOBOLEO is a web-based system to help you share knowledge and experience more easily by collecting and tagging (labeling) internet websites, office documents and people. The system's goal within MATRIX is to support the sharing information about documents, people and topics that are discussed within the consortium. And by doing this, others are able to learn about your domain and in doing so, allow you to share your knowledge and expertise.

The idea is that one can tag documents and people with the topics you are associated with, e.g., Multi-hazard assessment, Pyroclastic flow etc. This information is shared in the system and used to search for documents and people. A list provides all possible tag topics . If you want to tag a website, document or person with a topic that isn't on the list you can create a new topic. This is automatically added to the "latest topics" and you can put the new topic in the right place afterwards.

If you need information or a person to talk to, you can search by topic to find the right information or person. You can also just browse through the list and directory of tagged documents and people.

2 Getting Started

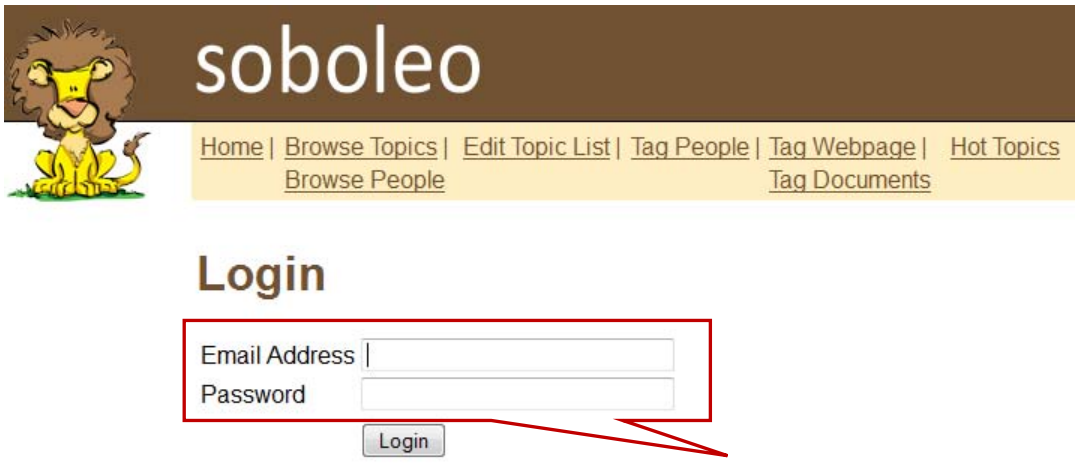
Figure 1: Login via the login link



Click the link to **login**

- You can log into **SOBOLEO** at http://gpiswtool.gpi.kit.edu:8080 by clicking on the **login** link on the right hand side of the menu bar (see Figure 1).
- To use SOBOLEO, please make sure that you have JavaScript, Cookies and pop-ups enabled.

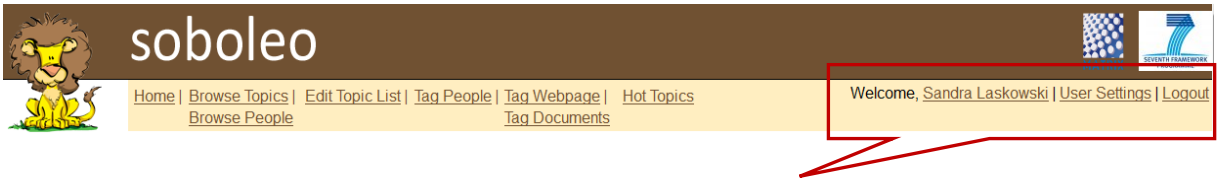
Figure 2: Login dialog to enter your email address and password



Login with your email address and password

- Please login with your user account data, i.e., your email address and password provided by your system administrator (see Figure 2).

Figure 3: Welcome when being logged in

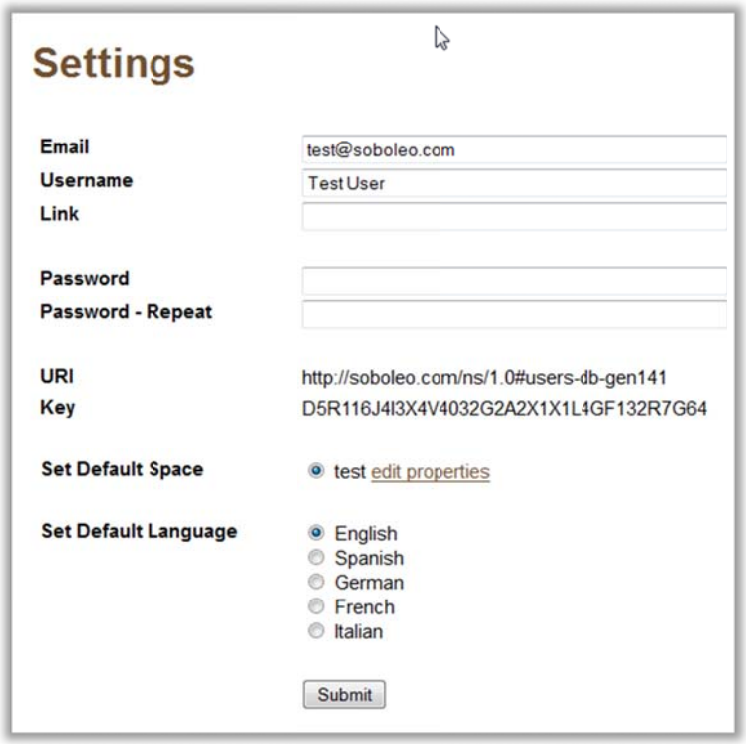

soboleo
Home | Browse Topics | Edit Topic List | Tag People | Tag Webpage | Hot Topics
Browse People
Tag Documents
Welcome, Sandra Laskowski | User Settings | Logout

System Welcome when being logged in

- As soon as you are logged in, the system welcomes you with your User Name in the upper right corner (see Figure 3).
- Click on your name to see your profile (see "**A Person's Profile**").
- Click on User Settings, to change your settings.

3 User Settings

Figure 4: Changing your settings



3.1 Changing your password and user details

- When loggin in for the first time, you may change your initial password. First, click on the link "**User Settings**" in the upper right corner. You will get to the "**Settings**" page (see Figure 4) where you can change your details like the password.
- Your personal URI and Key are for internal purposes, only.

3.2 Your default collaboration space

- You may also set your default collaboration space if you are a member of more than one community.

3.3 Your default language

- You can set your default language. That means, the system user interface will change to your preferred language and your inputs are assumed to be in that language.

4 Navigation

The SOBOLEO system consists of five main parts (see Figure 5):

Figure 5: Navigating SOBOLEO main parts

a) **Home** where you search for tagged websites, documents, and people

b) **Browse Topics** & **Browse People**

c) **Edit Topic List** in real time

d) **Upload & Tag Documents, Webpages, and People**

e) See the **Hot Topics**

5 Installing the Bookmarklets

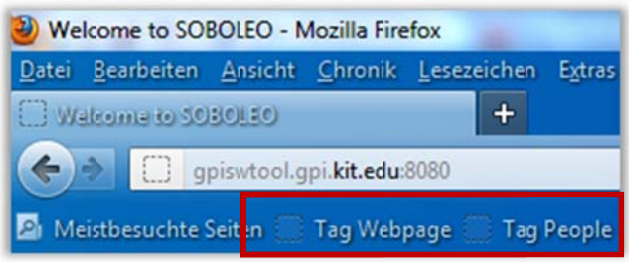
To easily add and tag new web pages and people, you can install bookmarklets to your browser.

Figure 6: Links to install the bookmarklets to your browser

Bookmark support from external pages
Drag the following links to your favorites bar in your browser. If the favorites bar is not visible, activate it in the browser settings first.
Bookmark a web page in SOBOLEO
Drag this link to the favorites bar and release, click on new item in bar from external pages to add that page to SOBOLEO
Bookmark a person in SOBOLEO
Drag this link to the favorites bar and release, click on it whenever you want to add a new person to SOBOLEO

- Please click on the link "**Tag Webpage**" and "**Tag People**" in the menu bar.
- Scroll to the bottom of the page and drag the marked links (see Figure 6) to your browser's bookmark bar and release.
- If you are using Internet Explorer or Opera, right click on the **l**ink and save it as favorite/bookmark.
- You should see now the new "**Tag Webpage**" and "**Tag People**" bookmarklet in your bookmark bar (see Figure 7).

Figure 7: Installed bookmarklets



6 Adding and Tagging a Webpage

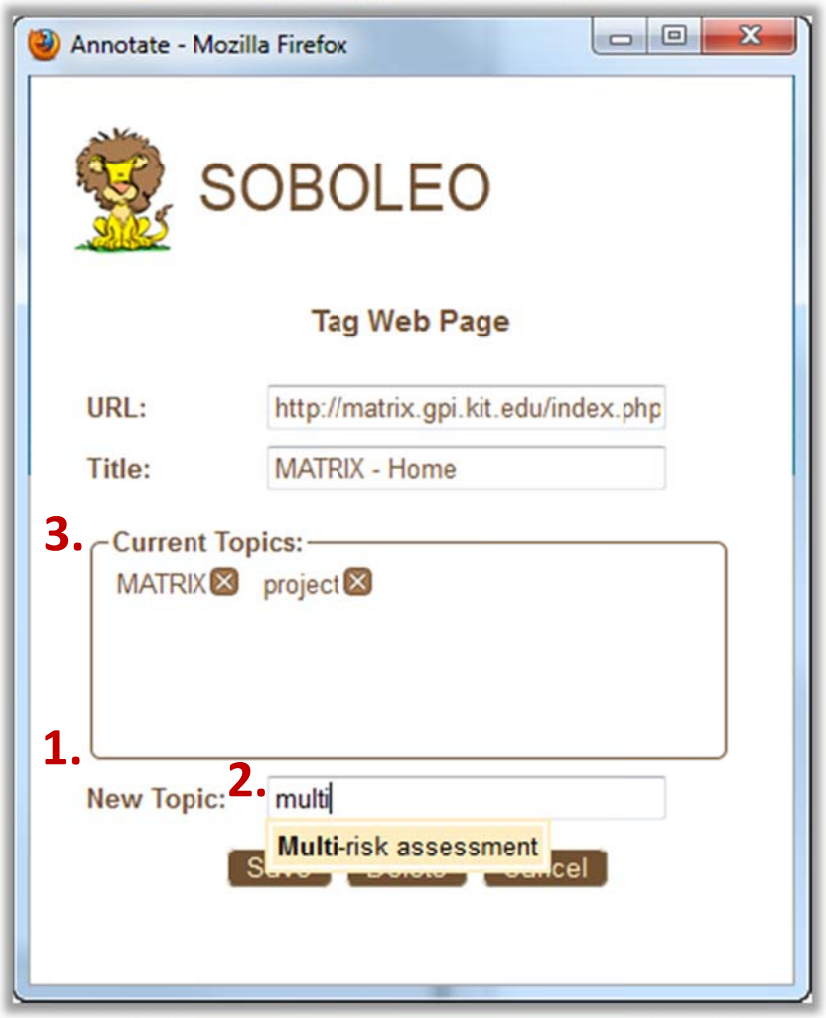
Figure 8: Tagging the MATRIX project website with the Tag Web Page tool

6.1 Start Adding a new Webpage

- You can add and tag a new Webpage either via using the installed "**Tag Webpage**" bookmarklet or by clicking on the "**Tag Webpage**" link in the menu bar in SOBOLEO (see Figure 5).
- Via the bookmarklet: To add and tag a new website open in your browser to SOBOLEO, click on the previously installed "**Tag Webpage**" bookmarklet in your browser's bookmark bar.
- The Tag Webpage tool will pop up with the URL and title of the website filled in (see Figure 8).
- Within SOBOLEO: Adding and tagging a new Webpage from within SOBOLEO works similarly.

6.2 Tagging a Webpage

Figure 9: During the tagging of the MATRIX project website



6.2.1 New Topic: Adding your topics

- In the **"New Topic"** field (1) you can add topics from the list appearing when you type ahead (2) or you can enter new topics (see Figure 9).
- New tags will appear as "**Latest Topics**" so that you can move them within the list later.
- To enter more than one topic use the enter key or comma or semicolon to separate them.

6.2.2 Current Topics: You and your community's topics

- Your topics are displayed in the box **"Current Topics"** above where you entered new topics (3).
- If another community member has already tagged the website, you can see the tags in this box as well.

6.2.3 Removing Topics:

- You can remove any of the tags again you by clicking on the cross icon behind each tag in the "**Current Topics**" box.

6.2.4 Save the Webpage and its tags:

- Click on the "**Save**" button to store and share the website with your tags in SOBOLEO.

6.2.5 Delete the Webpage and its tags:

- Click on the "**Delete**" button to delete the link to the website with its tags from SOBOLEO. You will also delete the link for the whole community.

7 Adding and Tagging a Person

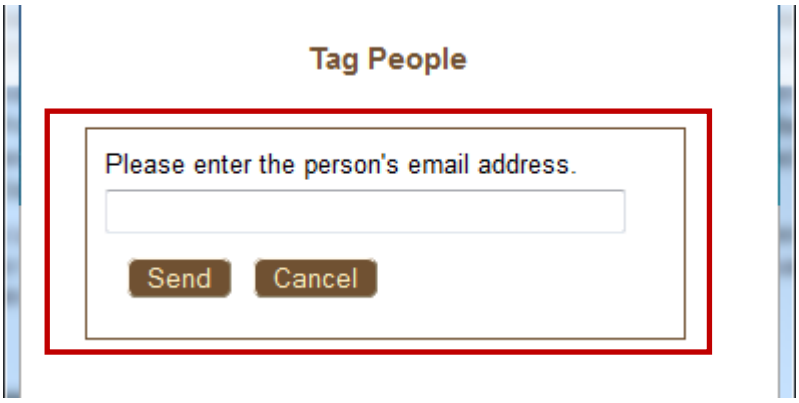
7.1 Start Adding a Person

- You can add and tag a person either via the "**Tag People**" bookmarklet in your browser or by clicking on "**Tag People**" link in the menu bar in SOBOLEO (see Figure 5).
- Via the bookmarklet: If you encounter a person's personal webpage, e.g., in the intranet, on a company's website or on a social network site like LinkedIn, you can tag the person by clicking on the previously installed "**Tag People**" bookmarklet in your browser's bookmark bar.
- The "**Tag People**" tool will pop up.
- Within SOBOLEO adding and tagging a person from within SOBOLEO works similarly.

7.2 Tagging the Person

7.2.1 For new Persons:

Figure 10: Adding the email address of the new person



- If the system does not yet know the person, you will be asked to enter the email address of the person you want to tag[1] (see Figure 10).

Figure 11: Adding the name of the new person

- If the system does not know a person for the email address you entered, you will be asked to further indicate the person's name (see Figure 11).

[1] We use the email address as it allows to uniquely identifying a person (in contrast to the person's name).

Figure 12: Tagging a person via his/her personal web page with the Tag People tool

- At the end you will see the Tag People popup interface with the name and email address of the person filled in and ready to start tagging (see Figure 12).

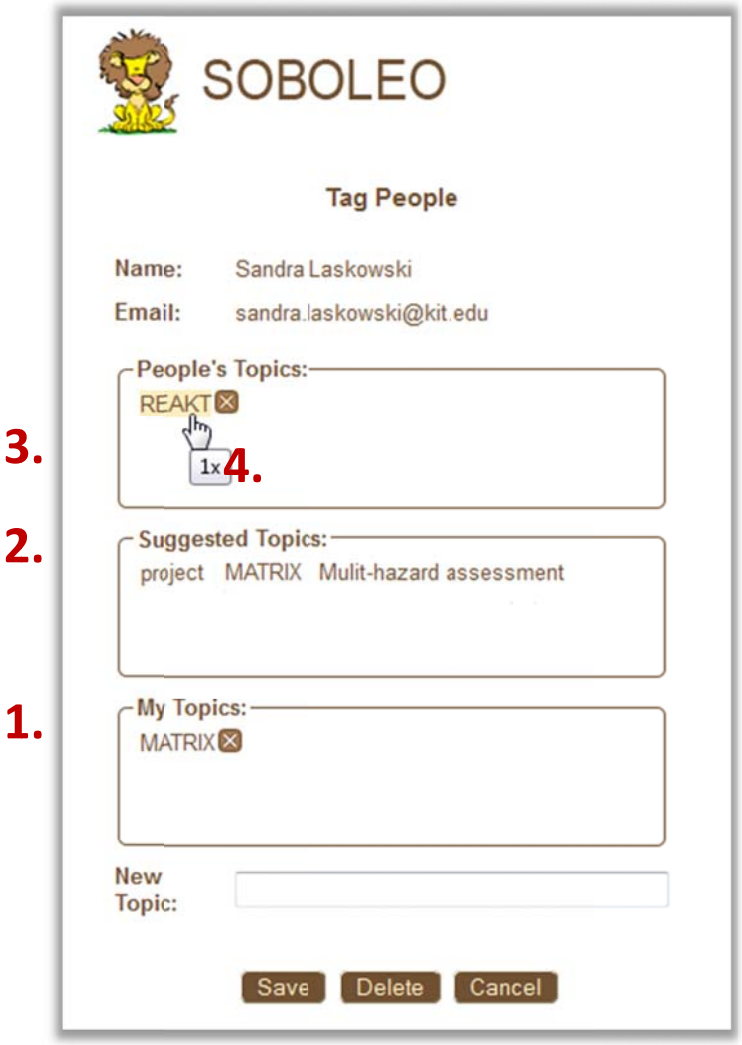
7.2.2 For Known Persons:

- If the system already knows the person or when using the bookmarklet, the webpage and its association to a person, it will fill the pop up with the known information like name, email address and topics the person is already tagged with.

7.2.3 New Topic: Adding your topics

- You can tag the person in a similar manner as tagging a web page (see Figure 13).

Figure 13: During tagging a person



7.2.4 My Topics:

- Differently from tagging a web page, the topics you enter are displayed in the box "**My Topics**" (1).
- If you have already tagged the person, you can see your tags here as well.

7.2.5 Removing Topics:

- You can remove topics again by clicking on the cross icon behind each tag.

7.2.6 Suggested Topics: system suggestions how to tag

- The system may also provide you with suggestions on how you can tag the person in the "**Suggested Topics**" **box** (2).
- Click on the tags to adopt them.

7.2.7 People's Topics: your community's topics

- If the person is already tagged by other people, you can see the tags in the "**People's Topics**" box (3).
- Hovering the mouse over one of the topics will show you how often the person is already tagged with the topic (4).

7.2.8 Removing topics from your profile

- If it's yourself, you can also delete the topics other people have assigned to you by clicking on the cross icon behind each tag.

7.2.9 Save the Person and his/her tags:

- Click on the "**Save**" Button to store and share the person with your tags in SOBOLEO.

7.2.10 Delete the Person and his/her tags:

- Click on the "**Delete**" Button to delete the person with its tags from SOBOLEO. Please be aware that you delete the person for the whole community.

8 Adding and Tagging Documents

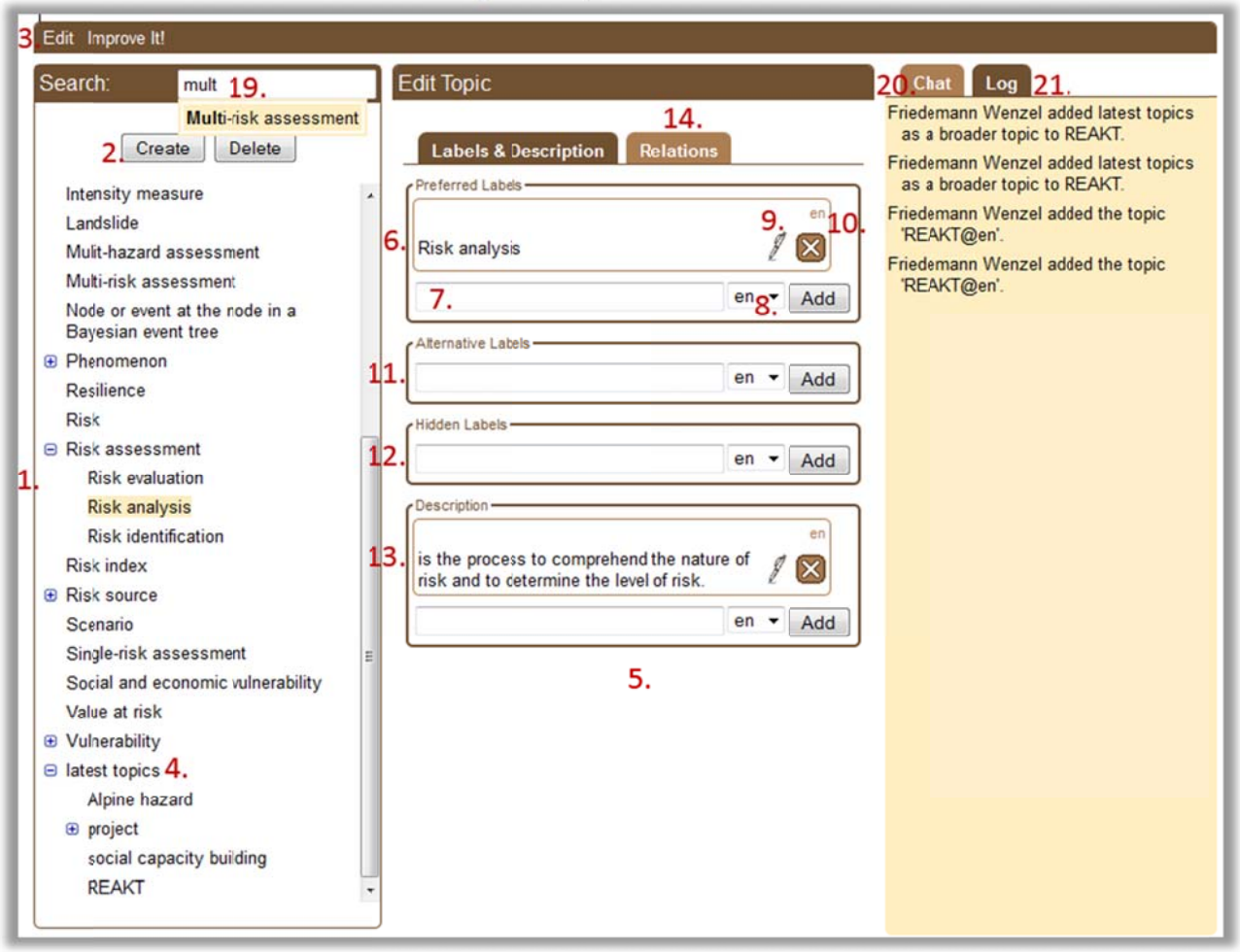
Figure 14: Uploading and tagging an office document

- To upload and tag an office document, click on the "**Tag Documents**" link in the menu bar (see Figure 14).

- Select the file type of your document you want to upload. Currently, you can upload PDF, Microsoft Word, PowerPoint or Excel documents.
- Select your file by clicking on "**Browse**".
- Click the "**Submit**" button to initiate the document upload.
- You can tag and share the uploaded document in a similar manner to web pages.

9 Editing the Topic List

Figure 15. Topic list editor



9.1 Entering the Editor

- Click on the "**Edit Topic List**" link in the menu bar to enter the editor (see Figure 15).
- The editor consists of three main parts: (a) to the left of the screen is a tree display of the topic list, (b) in the centre of the screen there is a detailed view of the topic currently selected and (c) to the right of the screen there is a message pane.

9.1.1 Who can use the editor

- Several users can use the editor at the same time; changes are instantly visible to all users.
- Currently, you can only see who else is using the editor, if the vocabulary is changed (showing messages in the message pane).
- These functions are also available via the menu item "**Edit**" (3).

9.2 Editing the topic list

- The tree display of the topic list (1) shows the topics with their preferred labels and their narrower and broader relations (forming the tree structure).
- Drag'n'drop concepts on other concepts to create new broader relations.
- Drag'n'drop while pressing shift removes the corresponding relations.
- To bring a topic to the upper most level of the vocabulary, go to the topic details and remove any broader relation (see "**Editing a topic's relations**").

9.2.1 Creating a new topic

- You can create a new topic with the "**Create**" button (2) above the topic list.
- This function is also available via the menu item "**Edit**" (3).

9.2.2 Delete a topic

- Delete a topic from the topic list with the "**Delete**" button above the topic list (2).
- This function is also available via the menu item "**Edit**" (3).

9.2.3 Latest Topics

- If you are not yet sure where to place a topic within the list, you can put it underneath "**latest topics**" (4).
- Any new topic, added during the tagging of a web page, document or person, is also automatically collected here (see "**Tagging a Web Page**" or "**Tagging a Person**").

9.2.4 Search a topic in the tree

- Search a topic in the tree via the search box above the tree display (19). It will be automatically highlighted in the tree and its details will appear in the centre of the screen.

9.2.5 Alphabetic order

- To restore the alphabetic order of the topic list, simply reload the editor.

9.3 Editing a topic's details

- Click on a topic in the tree to display its details in the centre of the screen (5).

9.3.1 Editing a topic's preferred labels

- Add or change the topic name, i.e. its preferred label ("**Preferred Labels**") (6).
- Enter a new label in the text field (7), select the language (8) and click on the "**Add**" button. Please remember that you can add exactly one preferred label per language.
- Click on the pencil button or double clicking on the label to edit the preferred labels (9) and press the enter key to save your changes.
- Click on the cross behind a preferred label to delete it (10). Please remember that you have to define at least one preferred label for a topic.

9.3.2 Editing a topic's alternative labels

- Underneath the preferred labels, you can add, change or delete alternative labels (11) ("**Alternative Labels**") such as synonyms or abbreviations in a similar way to preferred labels.
- You can specify several alternative labels per language.

9.3.3 Editing a topic's hidden labels

- Hidden labels (12) ("**Hidden Labels**") are unofficial names or typos. You can add, change or delete hidden labels similarly to preferred labels.
- You can specify several hidden labels per language.

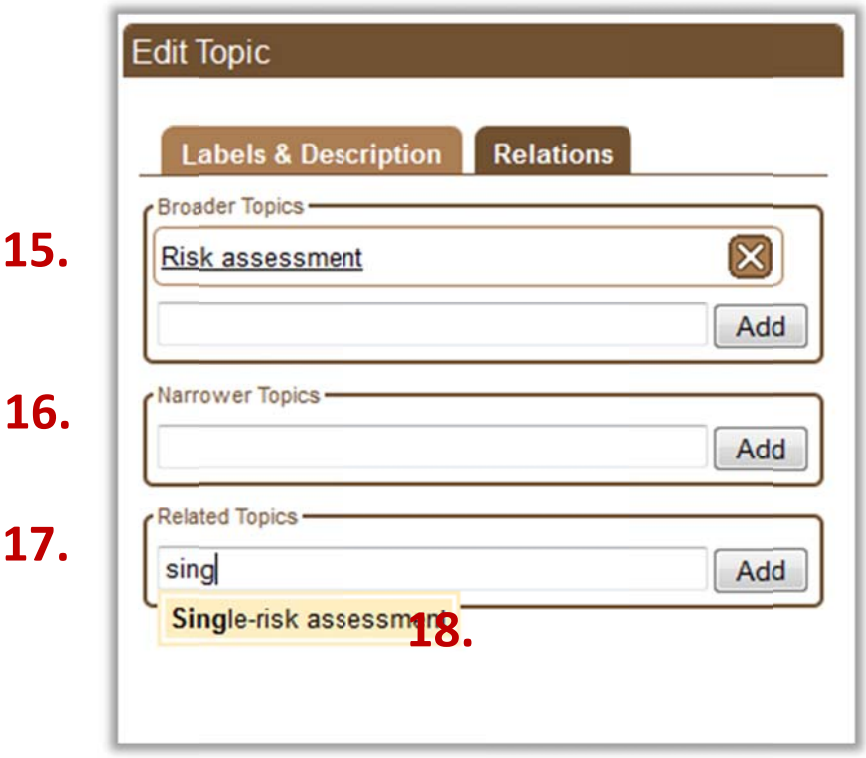
9.3.4 Editing a topic's description

- In the lower most box, you can provide a more detailed description of the topic (13) ("**Descriptions**") in a similar way to the labels.
- Please remember that you can have one description per language.

9.3.5 Editing a topic's relations

- Clicking on the tab "**Relations**" (14) (see Figure 15) to see how a topic relates to others (see Figure 16).
- Add links to a broader (15) ("**Broader Topics**"), narrower (16) ("**Narrower Topics**"), or related (17) ("**Related Topics**") topic by typing the other topics name into the text fields and click the "**Add**" button (see Figure 16). The system supports you with auto completion functionality (18).
- Removing any broader topic makes the topic a key topic on the upper most level of the vocabulary.
- Any changes you make are automatically made in the tree. If you click on one of the broader, narrower or related topics, you can jump to this topic in the tree.

Figure 16: Editing a topic's relations



9.3.6 Log messages

- The message pane to the right of the screen displays messages about any changes made to the vocabulary ("**Log**") (21)(see Figure 15).
- When you enter the editor, you can also see recent changes to the topics during your absence.

Figure 17: Chat and message pane

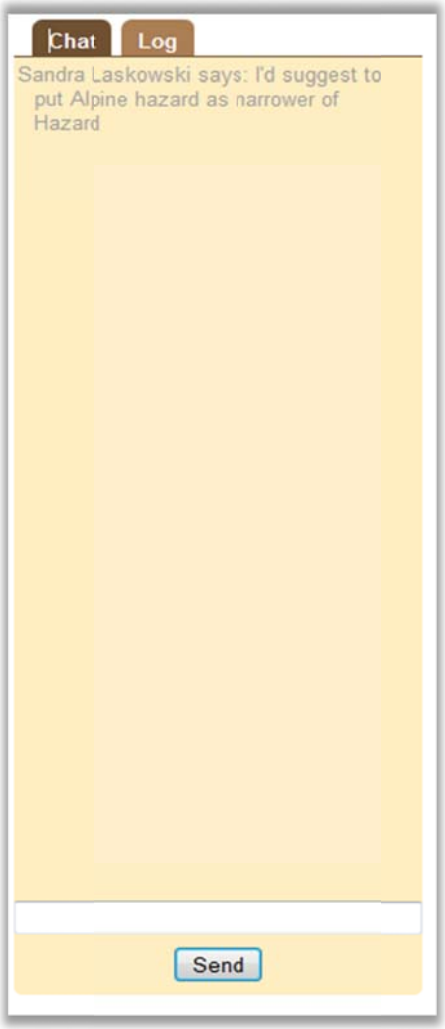
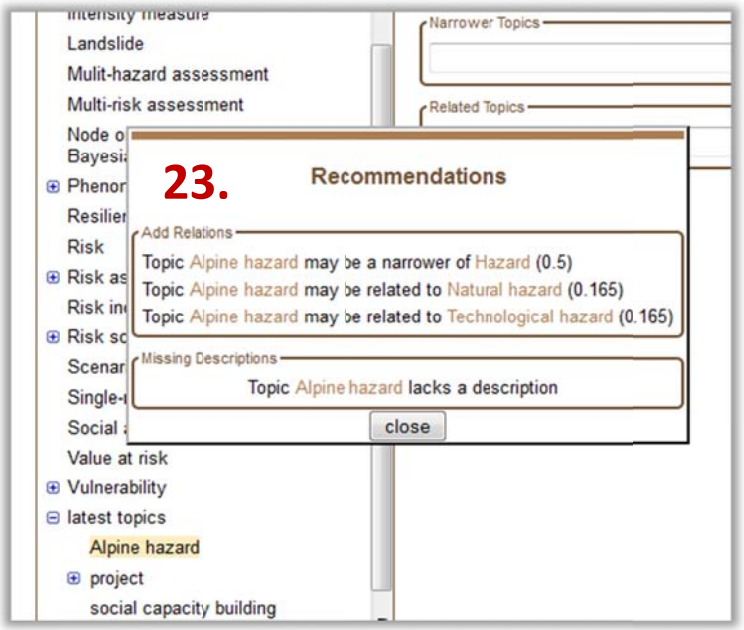


Figure 18: Recommendations how to improve the vocabulary



9.3.7 Chatting with other users

- You can send chat messages to other current users editing the topics. Clicking on the tab "**Chat**" (20) (see Figure 15) opens the chat window (see Figure 17).
- Enter your messages in the input box below the display (22). In this way, you can also discuss competing changes or ask for help if necessary.

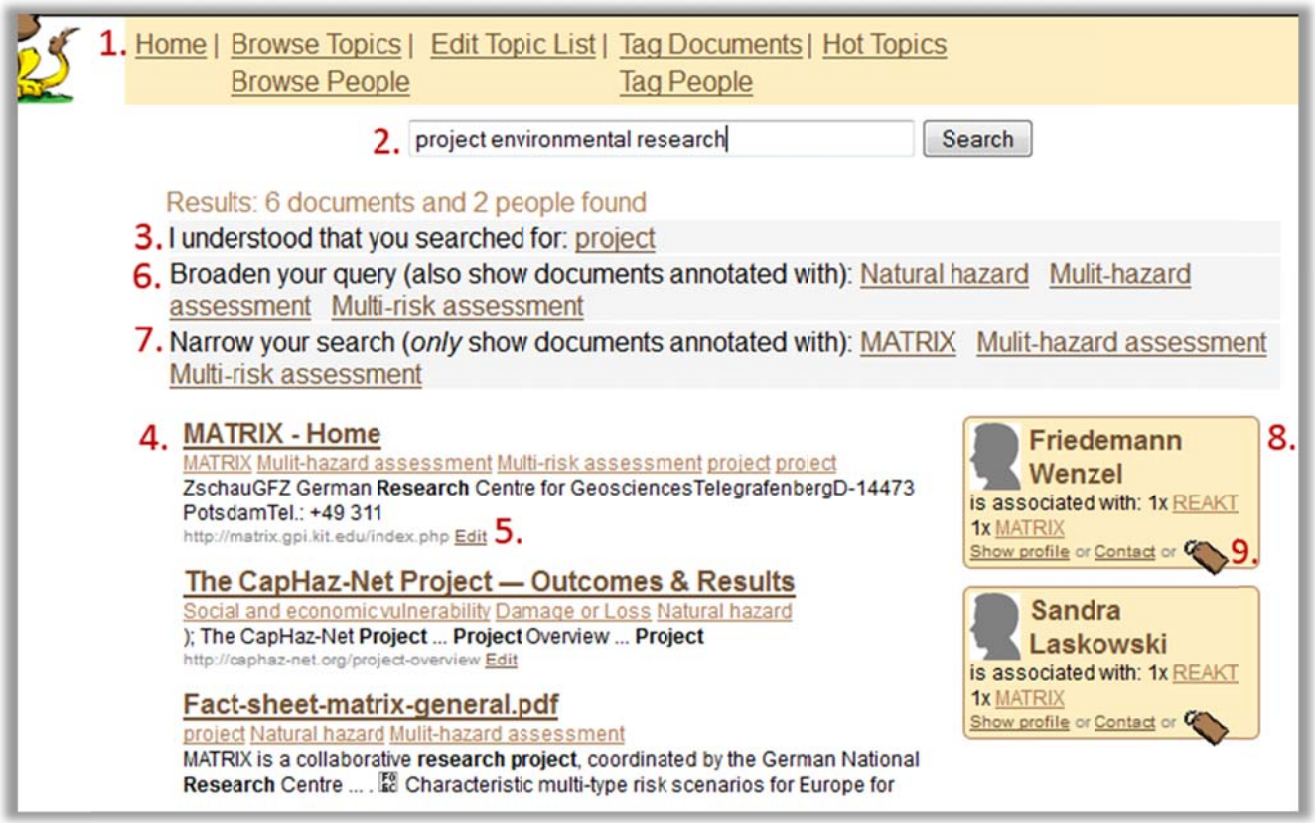
9.3.8 Getting recommendations to improve the vocabulary

- Click on "**Improve It!**" (3) (see Figure 15) to obtain recommendations from the system on how to improve the vocabulary, either for a specific topic or the whole topic list.

- It opens a popup (23) with e.g. hints where to place a topic or where descriptions are missing. Click on the topic name to jump to the topics in the list.

10 Searching for Documents & People

Figure 19: Searching for web pages, documents and people


1. Home | Browse Topics | Edit Topic List | Tag Documents | Hot Topics
Browse People
Tag People
2. project environmental research
Search
Results: 6 documents and 2 people found
3. I understood that you searched for: project
6. Broaden your query (also show documents annotated with): Natural hazard Mulit-hazard assessment Multi-risk assessment
7. Narrow your search (only show documents annotated with): MATRIX Mulit-hazard assessment Multi-risk assessment
4. MATRIX - Home
MATRIX Mulit-hazard assessment Multi-risk assessment project project
ZschauGFZ German Research Centre for GeosciencesTelegrafenbergD-14473 PotsdamTel.: +49 311
http://matrix.gpi.kit.edu/index.php Edit 5.
The CapHaz-Net Project — Outcomes & Results
Social and economicvulnerability Damage or Loss Natural hazard
); The CapHaz-Net Project ... Project Overview ... Project
http://caphaz-net.org/project-overview Edit
Fact-sheet-matrix-general.pdf
project Natural hazard Mulit-hazard assessment
MATRIX is a collaborative research project, coordinated by the German National Research Centre ... . Characteristic multi-type risk scenarios for Europe for
Friedemann Wenzel
is associated with: 1x REAKT 1x MATRIX
Show profile or Contact or
8.
9.
Sandra Laskowski
is associated with: 1x REAKT 1x MATRIX
Show profile or Contact or

10.1 Start a search

- To search for webpages, documents and people click on the link "**Home**" in the menu bar (1) (see Figure 19).
- Type your search terms into the text field (2) - similar to common internet search engines and press the "**Search**" button to initiate the search.

10.2 Result list

- The list of web pages and documents found is on the left hand side of the page (4). The list of people found is on the right hand side of the page (8). These are the web pages, documents and people tagged with these topics (in this case project) or narrower ones (but not related topics) or that contain references to the search string.

10.2.1 Recognized topics: I understood that you searched for

- Recognized topics are displayed above the results list as, e.g., "**I understood that you searched for: project management, project**" (3). Therefore, the semantic search engine analyzes the entered search string for occurrences of topics from the list. For example, for the search string '**project environmental research**', the system recognizes the topic '**project**' and displays it above the result list.

10.2.2 Found documents and webpages

- For web pages and documents, you can see the title, how they are tagged, a short excerpt of the page/document content highlighting the search terms and the exact URL.
- Click on the title to open the original website or download the document.
- Click on a topic to see all (web) documents in the directory that are tagged with the same topic or with one of its narrower topics (see "**Browse**").
- The "**Edit**" link for each result lets you change or remove the website link or documents and add or remove topics (5). This opens the "**Tag Web Page**"/"**Tag Office Document**" popup window.

10.2.3 Found people

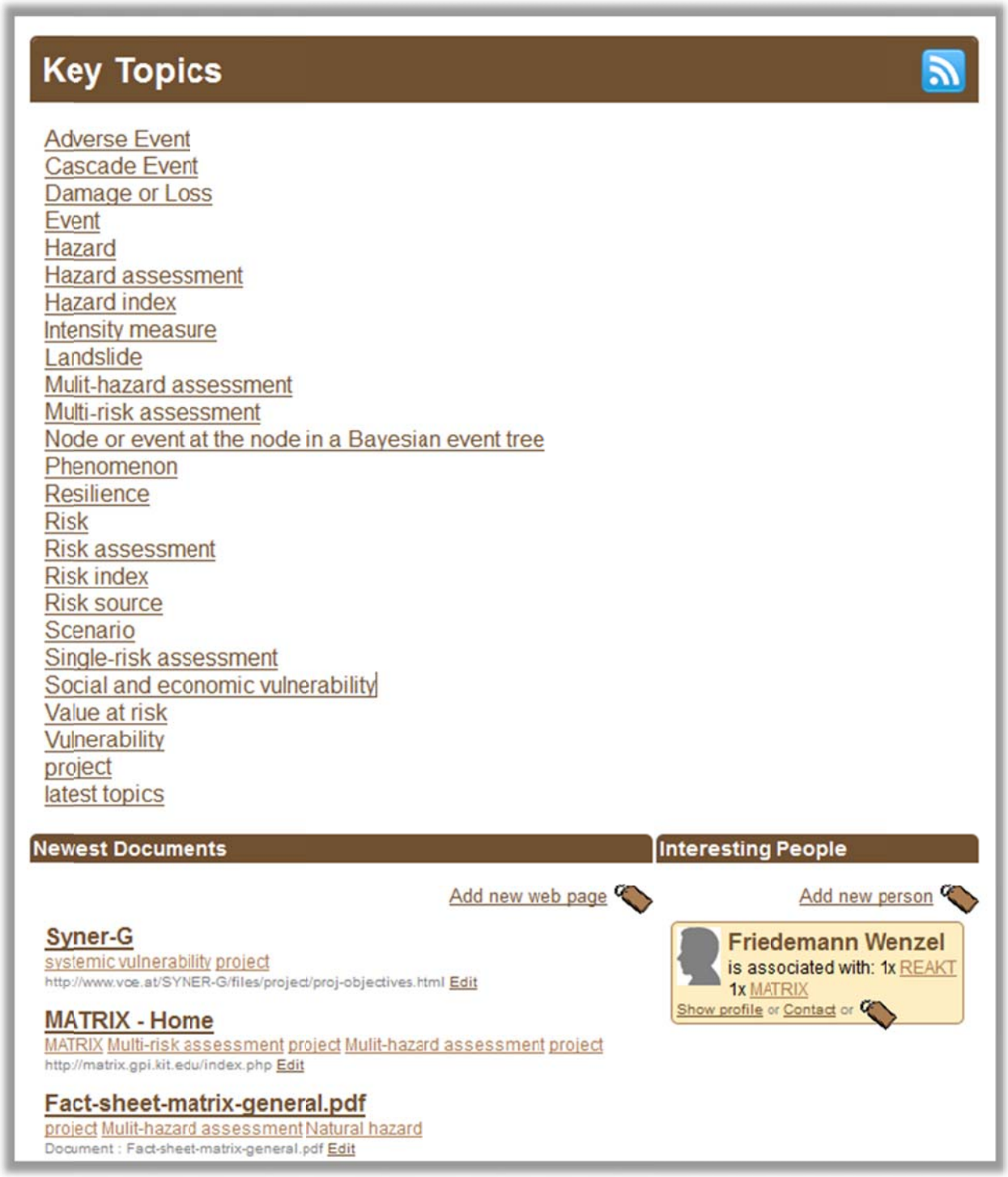
- For people, you can see their names as well as how they are tagged.
- Click on a topic to see all people in the directory that are tagged with the same topic or with one of its narrower topics (see also section Browse).
- Click on the link "**Show profile**" to look on their profile (9).
- Click on the link "**Contact**" to send an email to the person. It opens your default email program.
- Click on the tagging symbol to directly tag the person. This opens the Tag People popup window.

10.2.4 Broaden or narrow your search

- SOBOLEO makes further suggestions for you to broaden ("**Broaden your search**") or narrow ("**Narrow your query**") your search (6+7).
- Broaden your search only lists resources tagged with the selected topic or with one of its narrower ones.
- "**Narrow your search**" lists only resources tagged with the selected topic or with one of its narrower ones.
- The system gives feedback by displaying "**The following topics are required**" and required topic (currently limited to one topic) above the search result.

11 Browsing the Topic List and Tagged Webpages, Documents, and People

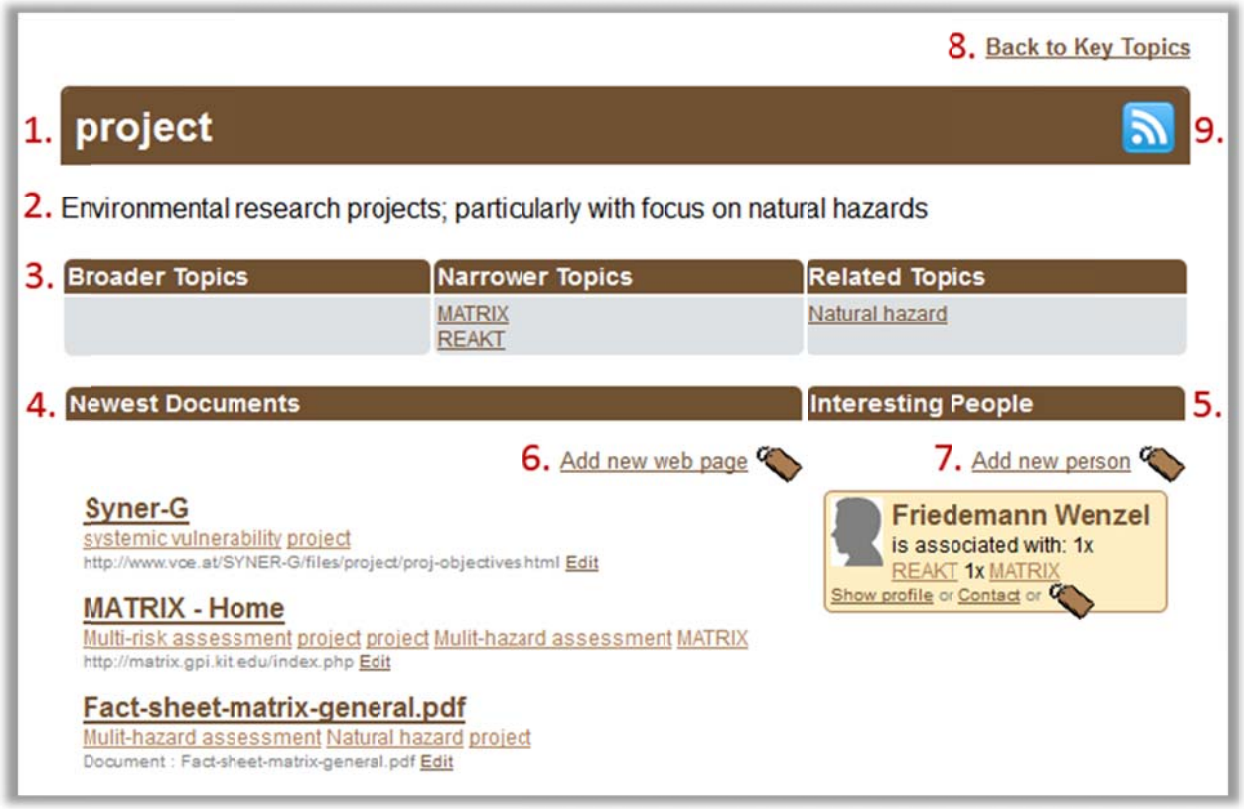
Figure 20: Browsing the topic list



11.1 Key Topics

- Within the browse area you can navigate through the topic list and the directory of tagged web pages, documents, and people (see Figure 20).
- Starting from the Key Topics, you can click through the main topics (1).
- You can get back to the Key Topics via the link "**Back to Key Topics**" (8).

Figure 21: Details of the topic 'project'



11.2 Browsing a Topic

- You can see the details for e.g. the topic '**project**' (see Figure 21) by selecting a topic or clicking on the name of a used topic within the search result list.
- You can see its preferred and alternative labels (1) and description (2).
- All its broader, narrower and related concepts are displayed as links for further navigation (3).

11.2.1 Webpages and Documents tagged with a topic

- Underneath the topic details, on the left hand side, there is a list of all web pages and documents (4) ("**Newest Documents**") that are tagged with the currently selected topic or with one of its narrower topics.
- The website links and documents are displayed similarly to the search result and are ranked by the date they were collected, with the newest resources at the top.
- Click on the link "**Add new web page**" (6) to add a web page if you are missing one. This will open the "**Add Webpage**" popup with the current topic filled in.
- To add a new office document, go to "**Tag Documents**" in the menu bar and upload a new document.

11.2.2 People tagged with a topic

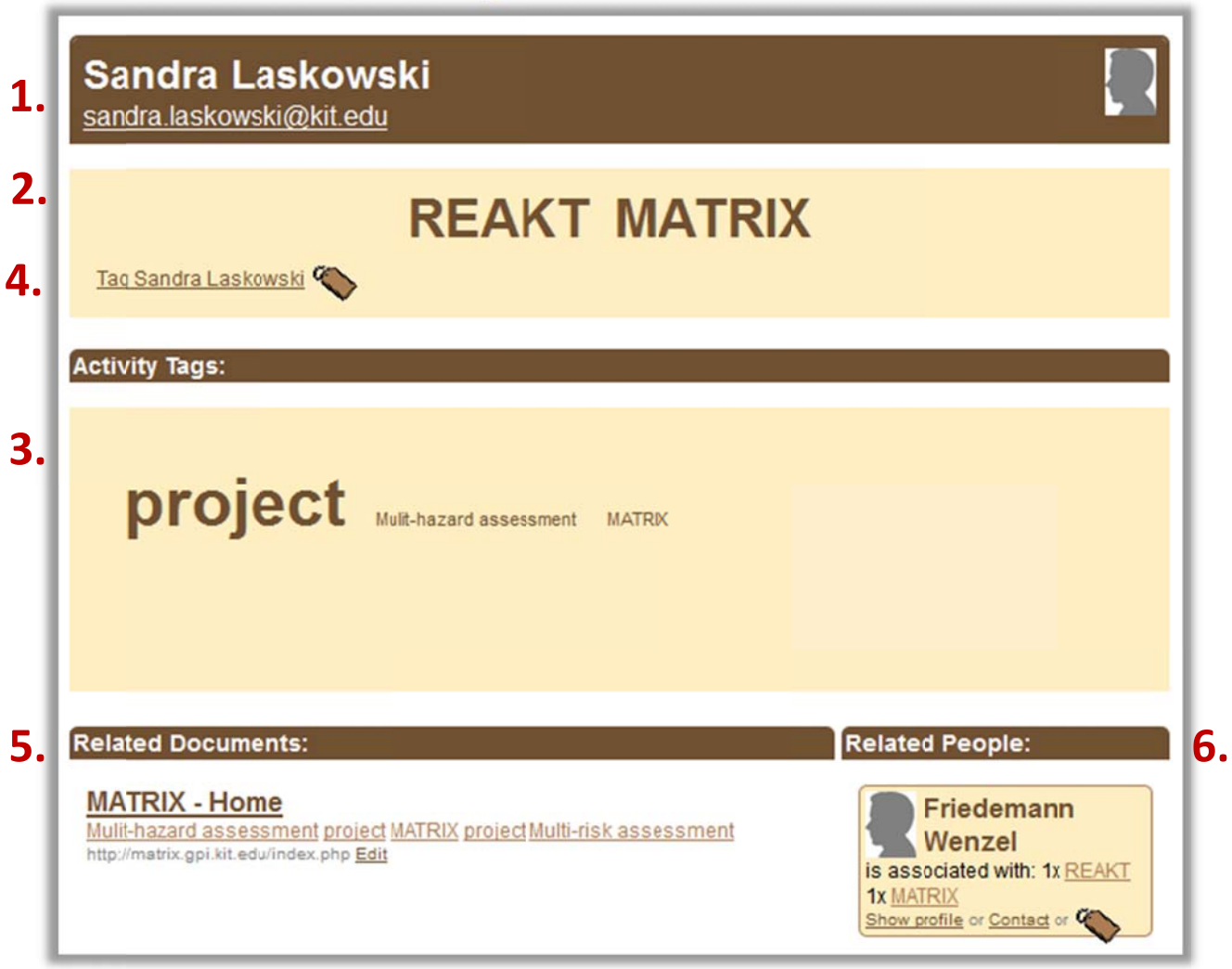
- Underneath the topic details, on the right hand side, there is a list of all people (5) ("**Interesting People**") that are tagged with the currently selected topic or with one of its narrower topics.
- The list of interesting people is also displayed similarly to the search result.
- Click on the link "**Add new person**" (7) to add a person if you are missing a person for the selected topic. This will open the "**Tag People**" popup with the current topic filled in. You only have to save.

11.2.3 RSS feed

- In order to stay up to date, you can also subscribe to the RSS feed for one specific concept or on the level of the key topics to all by clicking on the RSS feed button (9) just below the Back to Key Topics link.

12 A Person's Profile

Figure 22: A person's profile



- Clicking on the link "**Show profile**" of a person in the search result or browse area, leads you to the person's profile overview (see Figure 22).
- You can see the person's name and email address (1) through which you can contact him/her directly (clicking on it opens your default email program).

12.1 A person's Tag Cloud

- Underneath the contact information, you can see the person's individual tag cloud (2).
- Moving the mouse arrow over a topic, you can see how often the person was tagged with it.
- Clicking on it leads you to its details in the browse area.

12.1.1 Activity Tags

- The other tag cloud called "**Activity Tags**" (3) shows the topics the person has used within the system, e.g., to tag web pages or documents.

12.2 Tagging the person

- You can change the tags you have assigned to the person by clicking on the link and tagging symbol in the left corner (4).

12.3 A person's webpages and documents

- At the bottom to the left, you can see a list of links to the web pages and documents that the person has added or tagged (5).

12.4 Similar people

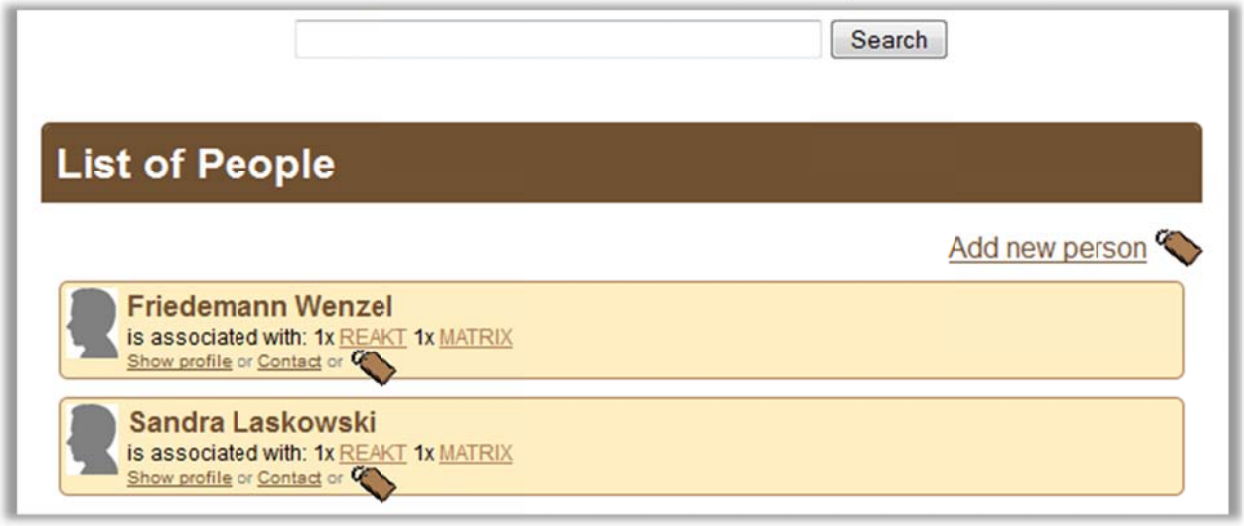
- To the right you can see other people that are similarly tagged to the selected person (6).

12.5 Your profile

- You can easily reach your own profile by clicking on your name in the menu left to the "**User Settings**" and "**Logout**" links.

13 Overview of all People

Figure 23: List of all tagged people in the directory

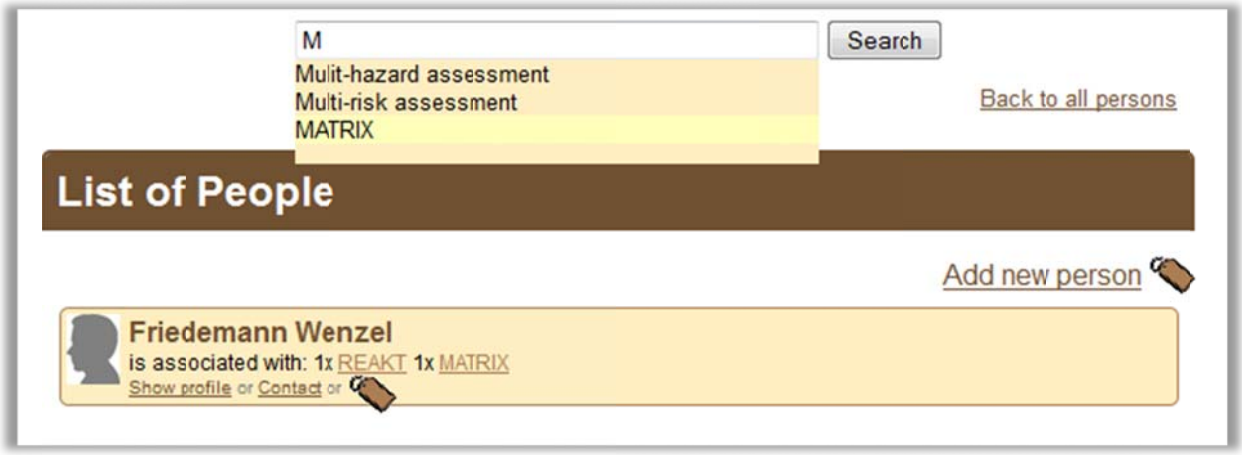


- Click on the link "**Browse People**" in the menu bar, and you can see a list of all tagged people in the directory in alphabetical order (see Figure 23).
- If you are missing a person, you can add the person via the "**Add new person**" link in the upper right corner.

13.1 Search People by Name or Topics in the List of People

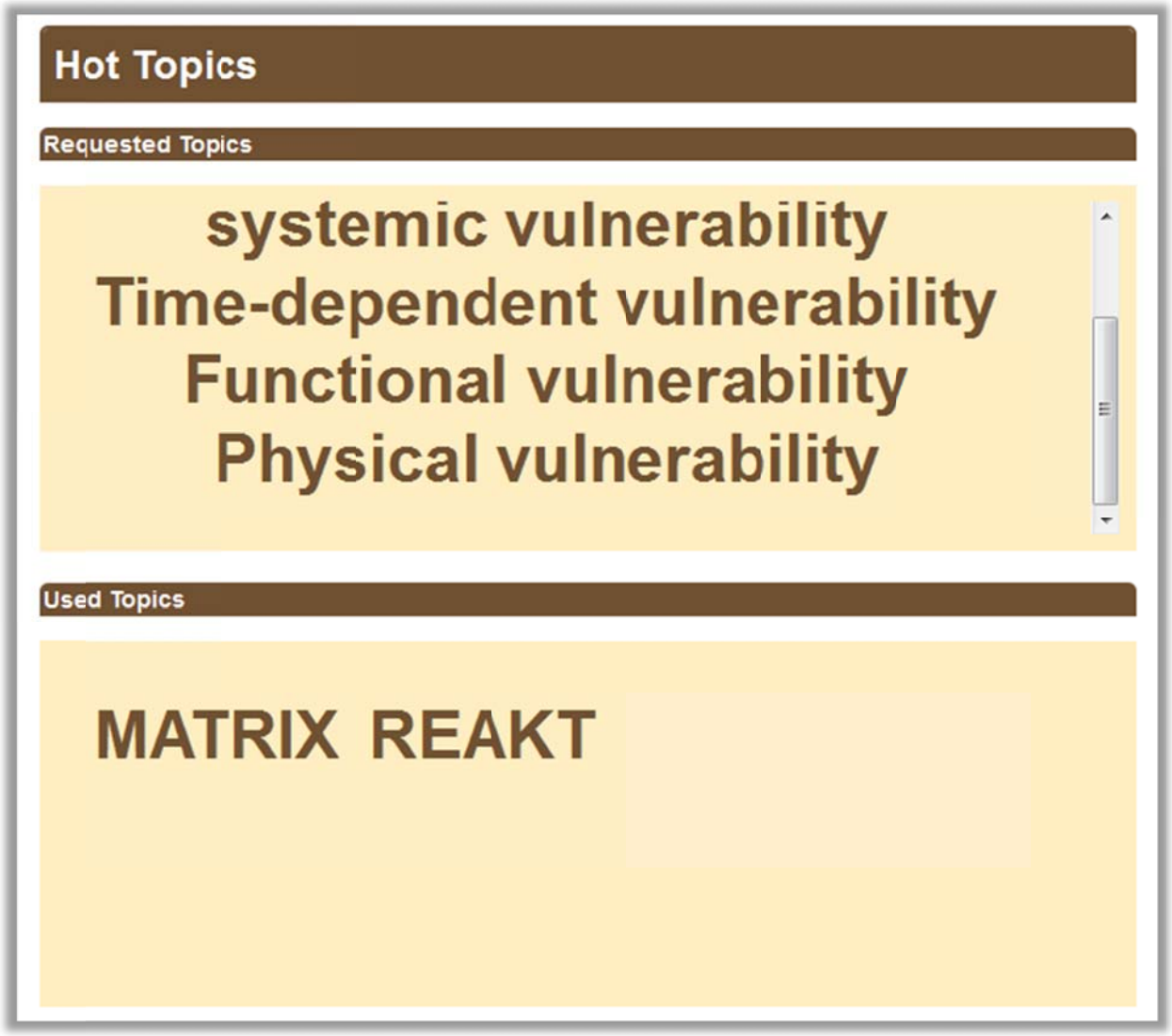
- You may also search people by name or topics by typing your terms into the search field at the top of the page (see Figure 24). The system will provide you with suggestions while you type ahead.
- This search reduces the list to found entries. For example, looking for '**MATRIX**' reduces the list to people tagged with the topic.
- You can get back to the whole list of people via the link "**Back to all persons**" the upper right corner.

Figure 24: Searching in the list of people



14 Hot Topics

Figure 25: The Hot Topics overview on requested and used topics in comparison



- The Hot Topics (see Figure 25) provides you with a simple overview displayed in two tag clouds on the topics people have search for ("**Requested Topics**") and topics people have used for tagging ("**Used Topics**").
- Moving the mouse over a topic, you can see how often the topic was either requested or used.
- Clicking on a topic leads you to its details in the browse area.

Dear colleague,

We welcome you to SOBOLEO and its training tasks!

On the next pages you find **11** tasks to familiarize yourself with the tool.
Each task can be solved within a few minutes.
Ideally, you read the SOBOLEO **user manual** before you start.
But you can also use the user manual as a guide while you are working on the tasks.

Therefore print the attached user manual or open it directly on your screen.
You can also download it at any time via SOBOLEO (*User Manual* button top right).

Finished the tasks?
Use SOBOLEO to fill in your own topics, links, people etc.!
As **SOBOLEO lives on your input**, we appreciate you visit SOBOLEO regularly to share your expertise and knowledge!

Best regards
Sandra
Friedemann
Petra

****

Getting help

If you have comments, problems or find errors – please contact us (KIT - Sandra Laskowski and Petra Knopf - webmaster@matrix.gpi.kit.edu).

Task 1 – Log in to SOBOLEO

(Help – Chapter 2/3)

You already received your username (= e-mail address) and password.

Use this link to log in:
http://gpiswtool.gpi.kit.edu:8080/

- Does the link work?
- Can you log in?
- Do you see your user name?
- Are your *User Settings* okay?
- Do you want to change your password?

Task 2 – Navigation

(Help – Chapter 4)

Log in to SOBOLEO (http://gpiswtool.gpi.kit.edu:8080/).

- The SOBOLEO navigation menu bar consists of five parts.
- The navigation menu bar on top shows Home – Browse – Edit – Tag – Hot topics.
- Click on every menu bar link!
- Do all links work, if you click them?

Task 3 – Installation of bookmarklets

(Help – Chapter 5)

Log in to SOBOLEO (http://gpiswtool.gpi.kit.edu:8080/).

- To tag webpages or people in an easier way, you can install bookmarklets to your Browser.
- Click on *Tag Webpages* or *Tag People* in the menu bar.
- On the bottom you see *Bookmark support from external pages*.
- If you use Mozilla, please follow the instruction.
- If you use Internet Explorer or Opera, please right click on the link and save as favorite / bookmark.

Task 4 – Edit Topic List

(Help – Chapter 9)

Log in to SOBOLEO (http://gpiswtool.gpi.kit.edu:8080/).
Click on *Edit Topic List* in the menu bar.

- The Topic List is based on the MATRIX *D3.2 Dictionary of terminology* and the REAKT taxonomy on *Early Warning*.
- Click on any topic and see its description.

The vocabulary and information in the *Topic List* should expand while using SOBOLEO.

- Create at least one new topic for the list!
- Before you start, have a look if the topic already exists. You can do it via the search option above the topic list.
- The new topic should generally refer to the (multi)hazard, risk, disaster and early warning terminology.
- The new topic will appear as the very last topic in the list.
- Please reload the page, so the topic will appear in alphabetical order.
- If you move the new topic via left mouse click it will appear as a subtopic.

- Add a description to the topic you created!
- Optionally, you can add an 'Alternative Label' (also in another language) or a 'Hidden Label'.
- You can also create a subtopic (e.g. vulnerability > physical vulnerability).
- Therefore create a new topic and move it via left mouse click under the relevant topic in the list.

- You do not have an idea what to add to the Topic List?
- Click on *Improve It!* to get recommendations.

- Are there any topics under *latest topics*?
- If yes, move them to the Topic List.
- Before you can do it, you have to delete its relation to *latest topic*.
- Click on the topic, click on 'Relations' (in the *Edit Topic* menu) and click the delete button.
- Now the topic appears in the topic list or can be moved as a subtopic.

Task 5 – Tag Web page

(Help – Chapter 6)

Log in to SOBOLEO (http://gpiswtool.gpi.kit.edu:8080/).
Click on *Tag Webpage* in the menu bar.

- Tag a web page!
- You found an interesting web page related to (multi)hazard, risk, disaster or early warning?
- Then use the installed bookmarklet (see Task 3) or use the *Tag Web Page* function.
- Enter the URL and tag the web page with topics.
- If topics are missing, you can create them (see Task 4).
- If you do not have an idea about a web page, visit the EU project list on Natural Hazards on MATRIX (http://matrix.gpi.kit.edu/EU%20Projects.php) or REAKT (http://www.reaktproject.eu/index.php?option=com_content&view=article&id=99&Itemid=90) and pick a project.
- Go to *Browse Topics* and navigate to one of the topics you used and find the web pages you tagged.

Task 6 – Browse Documents

(Help – Chapter 10/11)

Log in to SOBOLEO (http://gpiswtool.gpi.kit.edu:8080/).
Click on *Browse Topics* in the menu bar.

- Scroll down to *Newest Documents* or use the search option.
- Click on the document links.
- Do they work?

- Under the link you can see the tagged topics.
- Click on any topic and see how it is connected with other topics, people and documents.

- Any connection missing?
- Click on *Edit* and tag the document with a new appropriate topic!
- If topics are missing, you can create them (see Task 4).

Task 7 – Tag Document

(Help – Chapter 8)

Log in to SOBOLEO (http://gpiswtool.gpi.kit.edu:8080/).
Click on *Tag Documents* in the menu bar.

- Tag a document!
- You found an interesting document related to (multi)hazard, risk, disaster or early warning?
- Then use the *Tag Document* function.
- Select the file type, browse the document and click submit.
- You can upload Microsoft Office documents (Word, Excel, PowerPoint) and PDF only.
- If you do not have any idea about a document, visit the MATRIX portal (https://gpiportal2.gpi.uni-karlsruhe.de/login.php) or the REAKT portal (http://www.reaktproject.eu/index.php?option=com_wrapper&view=wrapper&Itemid=60) and pick a document.
- Tag the document with topics.
- If topics are missing, you can create them (see Task 4).
- Go to *Browse Topics* and navigate to one of the topics you used and find the document you tagged.

Task 8 – Browse People

(Help – Chapter 10/11)

Log in to SOBOLEO (http://gpiswtool.gpi.kit.edu:8080/).
Click on *Browse People* in the menu bar.

- Click on any name or *Show Profile* in the list.
- Does the person's profile open?
- See how this person is connected with other topics, people and documents.

- Any connection missing?
- Click on *Tag* (brown symbol) and tag the person with a new appropriate topic!
- If topics are missing, you can create them (see Task 4).

- Go back to the list and click on any *Contact*!
- Does your local / preferred email program open?
- Write a short email to the person to let him / her know you are using SOBOLEO and the system is working!

Task 9 – Tag People

(Help – Chapter 7)

Log in to SOBOLEO (http://gpiswtool.gpi.kit.edu:8080/).
Click on *Tag People* in the menu bar.

- Tag a person!
- You found an interesting person related to (multi)hazard, risk, disaster or early warning?
- Then use the installed bookmarklet (see Task 3) or use the *Tag People* function.
- Enter the person's email address and name.
- Tag the person with topics.
- If topics are missing, you can create them (see Task 4).
- If you do not have an idea about a person, choose a (MATRIX or REAKT) colleague.
- Go to *Browse People* and find the person you tagged.

Task 10 – Tag yourself

(Help – Chapter 7)

Log in to SOBOLEO (http://gpiswtool.gpi.kit.edu:8080/).
Click on *Browse People* in the menu bar.

- You can add information about yourself to the system.
- Click on your name in the list of people, this opens your profile.
- Tag yourself at least with one new topic or delete a topic.
- If topics are missing, you can create them (see Task 4).

Task 11 – Hot Topics

(Help – Chapter 14)

Log in to SOBOLEO (http://gpiswtool.gpi.kit.edu:8080/).
Click on *Hot Topics* in the menu bar.

- What are the Hot Topics in the consortium?
- Select one topic from the tag cloud.
- Click on the topic and have a look on its details.
- Can you tag a document or a person with the topic?